



TEST REPORT

Reference No. : WTF19F03013241C

Applicant: Mid Ocean Brands B.V.

Address: 7/F., Kings Tower, 111 King Lam Street, Cheung Sha Wan, Kowloon,

Hong Kong

Manufacturer.....: 112657

Sample Name: Children beach set

Model No. : MO8075

Test Requested.....: 1) Determination of Cadmium content in the submitted sample in accordance with REACH regulation Annex XVII Entries 23 (EC) No.

1907/2006 and the amendment No. 552/2009, No. 494/2011, No.

835/2012 and (EU) 2016/217

2) Determination of specified Phthalates content according to Annex XVII Items 51 & 52 of the REACH Regulation (EC) No. 1907/2006

& Amendment No. 552/2009

3) As requested by client, to determine the Diisobutyl phthalate (DIBP)

content in the submitted samples

4) Determination of specified Polycyclic Aromatic Hydrocarbons (PAHs) content in submitted sample in accordance with Entries 50 of Annex XVII of REACH Regulation (EC) No 1907/2006 and its

amendment Regulation (EU) No 1272/2013.

5) Determination of Benzene content in the submitted sample in accordance with Annex XVII Entries 5 of the REACH Regulation (EC) No. 1907/2006 and the Amendment (EU) No. 2015/1494

Test Method : Please refer to next page (s)

Test Conclusion : Please refer to next page (s)

Date of Receipt sample..... : 2019-03-11

Date of Test...... : 2019-03-11 to 2019-03-18

Date of Issue : 2019-03-18

Test Result: Please refer to next page (s)

Remarks:

The results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of reporter and reviewer.

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Compiled by:

Swing.Liang /Project Engineer

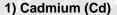
Swing.Liang/Project Engineer

REPORT Zhang /Lab Manager

Approved by:

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Test Result:



Test Method: With reference to IEC 62321-5:2013, the analysis was performed by ICP-OES.

Test Item	MDL J	Results (mg/kg)	
	(mg/kg)	No.1+No.2	
Cadmium(Cd)	THE THE MITTER WITH	Why who was a second	
Conclusion	10. 202.	THE THE LIPASS NITE WALL WALL	

14 THE WALL WALL WALL WALL	MDL	Results (mg/kg)		
Test Item	(mg/kg)	No.3+No.4		
Cadmium(Cd)	2	Let let let ND* while whi		
Conclusion	RITER MITE WAITE WA	Pass		

Note:

- (1) mg/kg = milligram per kilogram
- (2) ND = Not Detected (lower than MDL)
- (3) MDL = Method Detection Limit
- (4) Limit of Cadmium according to REACH regulation Annex XVII Item 23 (EC) No. 1907/2006 and the amendment No. 552/2009, No. 494/2011 and No. 835/2012 and (EU) 2016/217.

Category	Limit (mg/kg)
Wet paint	100
Surface coating	1000
Plastic	100
Metal parts of jewellery and hair accessories	100

(5) "*" = Results are calculated by the minimum weight of mixed components.





2) Phthalates

Test Method: With reference to EN14372:2004, by Gas Chromatographic-Mass Spectrometric (GC-MS) analysis.

Test Items	BBP	DBP	DEHP	DIDP	DINP	DNOP	MILL MALLE
MDL (%)	0.005	0.005	0.005	0.01	0.01	0.005	.t - et
Limit (%)	sum of th	ree phthala	ates < 0.1	sum of th	ree phthala	tes < 0.1	y Mr. M.
Specimen No.	LIER WALT		Resu	It (%)			Conclusion
No.1+No.2	ND*	ND*	ND*	ND*	ND*	ND*	Pass
No.3+No.4	ND*	ND*	ND*	ND*	ND*	ND*	Pass

Note:

DBP= Dibutyl phthalate

BBP= Benzyl butyl phthalate

DEHP= Bis-(2-ethylhexyl)- phthalate

DIDP= Di-isodecyl phthalate

DIDP= Di-isodecyl phthalate

- (1) % = percentage by weight
- (2) ND = Not detected or Less than the method detection limit
- (3) MDL=Method Detection Limit
- (4) "<" = less than
- (5) The above limit was quoted according to Annex XVII Items 51 & 52 of the REACH Regulation (EC) No. 1907/2006 & Amendment No. 552/2009(formerly known as Directive 2005/84/EC) for phthalate content in toys and child care articles.
- (6) "*" = Results are calculated by the minimum weight of mixed components.



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3) Diisobutyl Phthalate(DIBP)

Test Method: With reference to EN14372:2004, by Gas Chromatographic-Mass Spectrometric (GC-MS) analysis.

Test Item(s)	MDL	Results (mg/kg)	Client's Limit (mg/kg)	
et tet itet atet	(mg/kg)	No.1+No.2		
Diisobutyl phthalate (DIBP)	50	ND*	1000	
Conclusion	Mur The Me	Pass	to the tree street	

Test Item(s)	MDL	Results (mg/kg)	Client's Limit (mg/kg)	
TEX SITEX MITER WALTER	(mg/kg)	No.3+No.4	EX TEX STEX BUT	
Diisobutyl phthalate (DIBP)	50	ND*	1000	
Conclusion	m -m	Pass	A WILL NOTE MULLING	

Note:

- (1) mg/kg=milligram per kilogram=ppm
- (2) ND = Not detected or Less than the method detection limit
- (3) MDL=Method Detection Limit
- (4) "*" = Results are calculated by the minimum weight of mixed components.

4) Polycyclic Aromatic Hydrocarbons (PAHs)

Test Method: With reference to AFPS GS 2014:01 PAK method, analysis was performed by Gas

Chromatographic Mass Spectrometry (GC-MS).

Test Items	Unit	Results No.1+No.2	MDL	Limit
Benzo(a)anthracene (BaA)	mg/kg	ND*	0.2	0.5
Chrysene (CHR)	mg/kg	ND*	0.2	0.5
Benzo[b]fluoranthene (BbFA)	mg/kg	ND*	0.2	0.5
Benzo[k]fluoranthene (BkFA)	mg/kg	ND*	0.2	0.5
Benzo(a)pyrene (BaP)	mg/kg	ND*	0.2	0.5
Dibenzo[a,h]anthracene (DBAhA)	mg/kg	ND*	0.2	0.5
Benzo[j]fluoranthene (BjFA)	mg/kg	ND*	0.2	0.5
Benzo[e]Pyrene (BeP)	mg/kg	ND*	0.2	0.5
Conclusion	EK NATE V	Pass	m	.



Test Items	Unit	Results No.3+No.4	MDL	Limit
Benzo(a)anthracene (BaA)	mg/kg	ND*	0.2	0.5
Chrysene (CHR)	mg/kg	ND* TE NO	0.2	0.5
Benzo[b]fluoranthene (BbFA)	mg/kg	ND*	0.2	0.5
Benzo[k]fluoranthene (BkFA)	mg/kg	ND*	0.2	0.5
Benzo(a)pyrene (BaP)	mg/kg	ND*	0.2	0.5
Dibenzo[a,h]anthracene (DBAhA)	mg/kg	ND*	0.2	0.5
Benzo[j]fluoranthene (BjFA)	mg/kg	ND*	0.2	0.5
Benzo[e]Pyrene (BeP)	mg/kg	ND*	0.2	0.5
Conclusion	JEX - JEX	Pass	mr m	74, - 74,

Note:

- (1) ND = Not Detected or less than method detection limit
- (2) mg/kg=milligram per kilogram=ppm
- (3) MDL = Method Detection Limit
- (4) As per Entries 50 of Annex XVII of REACH Regulation (EC) No 1907/2006 and its amendment Regulation (EU) No 1272/2013, Articles shall not be placed on the market for supply to the general public, if any of their rubber or plastic components that come into direct as well as prolonged or short-term repetitive contact with the human skin or the oral cavity, under normal or reasonably foreseeable conditions of use, contain more than 1 mg/kg (0,0001 % by weight of this component) of any of the listed PAHs.
- (5) As per Entries 50 of Annex XVII of REACH Regulation (EC) No 1907/2006 and its amendment Regulation (EU) No 1272/2013, Toys, including activity toys, and childcare articles, shall not be placed on the market, if any of their rubber or plastic components that come into direct as well as prolonged or short-term repetitive contact with the human skin or the oral cavity, under normal or reasonably foreseeable conditions of use, contain more than 0,5 mg/kg (0,00005 % by weight of this component) of any of the listed PAHs.
- (6) "*" = Results are calculated by the minimum weight of mixed components.

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5) Benzene

Test Method: With reference to US EPA 3550C:2007& US EPA 8270D: 2014, analysis was performed by GC-MS

at wet at	MDL WALL	Results (mg/kg)	Limit (mg/kg)	
Test Item	(mg/kg)	No.1+No.2		
Benzene*	ancie will war	$ND^{\scriptscriptstyle \triangle}$	t let 5 let it	
Conclusion	* A A A	Pass	Mur. The Mr.	

Took Hom	MDL	Results (mg/kg)	Limit (mg/kg)	
Test Item	(mg/kg)	No.3+No.4		
Benzene*	L 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ND ^A	5	
Conclusion	is murit mar muri	Pass	Et JEK-JIEK MI	

Note:

- (1) mg/kg = milligram per kilogram
- (2) ND = Not Detected (lower than MDL)
- (3) MDL = Method Detection Limit
- (4) As per Annex XVII Items 5 of the REACH Regulation (EC) No. 1907/2006 and the Amendment (EU) No. 2015/1494, benzene shall not be used in toys or parts of toys where the concentration of benzene in the free state is greater than 5 mg/kg (0,0005 %) of the weight of the toy or part of toy.
- (5) The testing item marked with "" do not been accredited by CNAS
- (6) "△"=Results are calculated by the minimum weight of mixed components.

Test Specimen Description:

No.1: Yellow plastic handle

No.2: Green plastic shell

No.3: Blue plastic rake

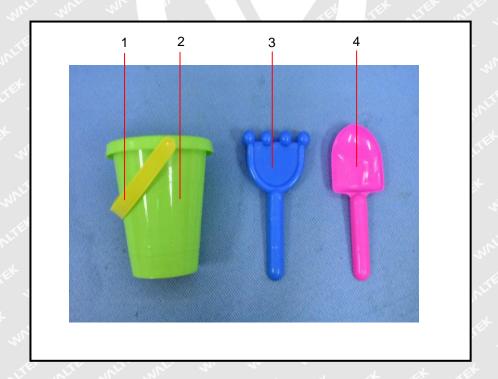
No.4: Rose red plastic shovel



Sample photo:



Photograph of parts tested:



===== End of Report =====